

Application Serial Number 10/505,348
Response to Office Action
Dated June 15, 2006

2. Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (CURRENTLY AMENDED) A subtractive display device comprising picture elements having sub-pixels, each sub-pixel having, viewed during operation in a direction normal to [[the]] substrates, at least two independently switchable electro-optical components, the device further comprising:

a color filter in which each sub-pixel color filter part absorbs or reflects one of a part of the optical spectral range, the parts of the optical spectral range being substantially non-overlapping, the device comprising means for controlling absorption or reflection of remaining parts of the spectral range in each sub-pixel by the at least two switchable electro-optical components, the non-overlapping ranges together covering the optical spectral range, wherein the electro-optical components further comprise at least one first fluid and a second fluid, wherein the second fluid and the first fluid are immiscible.

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2. (ORIGINAL) A subtractive display device according to claim 1 in which one of the at least two switchable electro-optical components in each sub-pixel is switchable between a substantially transparent or translucent state and a state absorbing or reflecting a first part of the remainder of the spectral range.

3. (ORIGINAL) A subtractive display device according to claim 2 in which at least one further switchable electro-optical component in each sub-pixel is switchable between a substantially transparent or translucent state and a state absorbing or reflecting the remainder of the spectral range.

4. (ORIGINAL) A subtractive display device according to claim 2 in which at least one further of the at least two switchable electro-optical components in each sub-pixel is switchable between a substantially transparent or translucent state and a state substantially transparent or translucent to a part of the remainder of the spectral range.

5. (ORIGINAL) A subtractive display device according to claim 2 or 4 in which at least one further switchable electro-optical component in each sub-pixel is switchable between a substantially transparent or translucent state and a state substantially transparent or translucent to the remainder of the spectral range.

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6. (ORIGINAL) A subtractive display device according to claim 2 having cyan, magenta and yellow color filter parts, at least one of two switchable electro-optical components in each sub-pixel being switchable between a substantially transparent or translucent state and one of the colors cyan, magenta and yellow.

7. (ORIGINAL) A subtractive display device according to claim 6 the other of the two switchable electro-optical components in each sub-pixel being switchable between a substantially transparent or translucent state and one of the colors cyan, magenta and yellow.

8. (ORIGINAL) A subtractive display device according to claim 2 having cyan, magenta and yellow color filter parts, at least one of two switchable electro-optical components in each sub-pixel being switchable between a substantially transparent or translucent state and one of the colors cyan, magenta and yellow, the other of the two switchable electro-optical components in each sub-pixel being switchable between a substantially transparent or translucent state and the colors red, green and blue.

9. (PREVIOUSLY PRESENTED) A display device according to claim 1 in which a sub-pixel corresponds to a defined space.

10. (ORIGINAL) A display device according to claim 1 each sub-pixel having between a first support plate and a second support plate, viewed in a direction normal to the

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substrates, at least two switchable electro-optical layers, comprising the at least one first fluid and the second fluid respectively, the device comprising means for creating at least two different states in each layer, the layers in a sub-pixel switching between a substantially transparent or translucent state and two different colors.

11. (Currently Amended) A display device according claim 10 having at least two first fluids of different colors of the color filter part and ~~a second fluid, the second fluids being immiscible with the first fluids within a space between the first support plate and the second support plate~~, the second fluid being electroconductive or polar in which a picture element corresponds to a defined space having a wall part dividing the space into at least three sub-picture elements, in the first state each of the first fluids adjoining separate support plates within each sub-picture element.

12. (ORIGINAL) A display device according to claim 1 which comprises an absorber or a reflector at the side of one of the substrates.

13. (CURRENTLY AMENDED) A subtractive display device comprising picture elements having sub-pixels, each sub-pixel having, viewed during operation in a direction normal to ~~[[the]]~~ substrates, n independently switchable electro-optical components ($n > 2$), the device further comprising a color filter in which each sub-pixel color filter part absorbs or reflects one of a part of the optical spectral

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range, the parts of the optical spectral range being substantially non -overlapping, the device comprising means for controlling absorption or reflection of remaining parts of the spectral range in each sub-pixel by (n-1) switchable electro-optical components, the non -overlapping ranges together covering the optical spectral range wherein the electro-optical components further comprise at least one first fluid and a second fluid, wherein the second fluid and the first fluid are immiscible.